

## LOW PASS FILTERS IN DLL CIRCUITS

### Abstract of the Disclosure

Circuits and methods are provided that reduce, if not prevent, the adverse effects of transient noise on phase adjustments made by digital delay lock loop (DLL) circuits, which typically generate a periodic output signal having a particular phase relationship with a periodic input signal. A digital low pass filter of a DLL circuit includes circuitry, such as, for example, a thermometer register, coupled to receive the outputs of a DLL phase detector. The low pass filter prevents the DLL circuit from making frequent changes to the phase of the DLL output signal.